

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/519,325  
Source: PT  
Date Processed by STIC: 3/31/06

**ENTERED**



PCT

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/10/519,325**

**DATE: 03/31/2006**  
**TIME: 15:34:00**

**Input Set : A:\62639463.APP**  
**Output Set: N:\CRF4\03312006\J519325.raw**

```

3 <110> APPLICANT: TANAKA, HIROSHI
4           KAIEDA, ISAO
5           HONDA, KOHEI
7 <120> TITLE OF INVENTION: PREVENTING/TREATING AGENT FOR CANCER
9 <130> FILE REFERENCE: 62639(46342)
11 <140> CURRENT APPLICATION NUMBER: 10/519,325
12 <141> CURRENT FILING DATE: 2004-12-23
14 <150> PRIOR APPLICATION NUMBER: PCT/JP03/008036
15 <151> PRIOR FILING DATE: 2003-06-25
17 <150> PRIOR APPLICATION NUMBER: JP 2002-186799
18 <151> PRIOR FILING DATE: 2002-06-26
20 <150> PRIOR APPLICATION NUMBER: JP 2002-186815
21 <151> PRIOR FILING DATE: 2002-06-26
23 <160> NUMBER OF SEQ ID NOS: 26
25 <170> SOFTWARE: PatentIn Ver. 3.3
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 296
29 <212> TYPE: PRT
30 <213> ORGANISM: Homo sapiens
32 <400> SEQUENCE: 1
33 Met Glu His Leu Lys Ala Phe Asp Asp Glu Ile Asn Ala Phe Leu Asp
34      1          5          10          15
36 Asn Met Phe Gly Pro Arg Asp Ser Arg Val Arg Gly Trp Phe Thr Leu
37      20         25          30
39 Asp Ser Tyr Leu Pro Thr Phe Phe Leu Thr Val Met Tyr Leu Leu Ser
40      35         40          45
42 Ile Trp Leu Gly Asn Lys Tyr Met Lys Asn Arg Pro Ala Leu Ser Leu
43      50         55          60
45 Arg Gly Ile Leu Thr Leu Tyr Asn Leu Gly Ile Thr Leu Leu Ser Ala
46      65         70          75          80
48 Tyr Met Leu Ala Glu Leu Ile Leu Ser Thr Trp Glu Gly Gly Tyr Asn
49      85         90          95
51 Leu Gln Cys Gln Asp Leu Thr Ser Ala Gly Glu Ala Asp Ile Arg Val
52      100        105         110
54 Ala Lys Val Leu Trp Trp Tyr Tyr Phe Ser Lys Ser Val Glu Phe Leu
55      115        120         125
57 Asp Thr Ile Phe Phe Val Leu Arg Lys Lys Thr Ser Gln Ile Thr Phe
58      130        135         140
60 Leu His Val Tyr His His Ala Ser Met Phe Asn Ile Trp Trp Cys Val
61      145        150         155          160
63 Leu Asn Trp Ile Pro Cys Gly Gln Ser Phe Phe Gly Pro Thr Leu Asn
64      165        170         175
66 Ser Phe Val His Ile Leu Met Tyr Ser Tyr Tyr Gly Leu Ser Val Phe

```

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION:** US/10/519,325

**DATE:** 03/31/2006  
**TIME:** 15:34:00

**Input Set : A:\62639463.APP**  
**Output Set: N:\CRF4\03312006\J519325.raw**

```

67           180           185           190
69 Pro Ser Met His Lys Tyr Leu Trp Trp Lys Lys Tyr Leu Thr Gln Ala
70           195           200           205
72 Gln Leu Val Gln Phe Val Leu Thr Ile Thr His Thr Met Ser Ala Val
73           210           215           220
75 Val Lys Pro Cys Gly Phe Pro Phe Gly Cys Leu Ile Phe Gln Ser Ser
76 225           230           235           240
78 Tyr Met Leu Thr Leu Val Ile Leu Phe Leu Asn Phe Tyr Val Gln Thr
79           245           250           255
81 Tyr Arg Lys Lys Pro Met Lys Lys Asp Met Gln Glu Pro Pro Ala Gly
82           260           265           270
84 Lys Glu Val Lys Asn Gly Phe Ser Lys Ala Tyr Phe Thr Ala Ala Asn
85           275           280           285
87 Gly Val Met Asn Lys Lys Ala Gln
88           290           295
91 <210> SEQ ID NO: 2
92 <211> LENGTH: 888
93 <212> TYPE: DNA
94 <213> ORGANISM: Homo sapiens
96 <400> SEQUENCE: 2
97 atggaacatc taaaggccctt tgatgtgaaa atcaatgctt ttttgacaa tatgtttgg 60
98 cccgcgagatt ctgcgactcg agggtggttc acgttggact cttaccttcc taccttttt 120
99 cttaactgtca tgtatctgct ctcaaatatgg ctgggttaaca agtataatgaa gaacagac 180
100 gctctttctc tcaggggtat cctcaccttgc tataatcttgc gaatcacact tctctccgc 240
101 tacatgctgg cagagctcat tctctccact tggaaaggag gctacaacctt acagtgtcaa 300
102 gatcttacca ggcgcaggaga agctgacatc cgggttagcca aggtgttttgc gtggactat 360
103 ttctccaaat cagtagagtt cctggacaca atttcttcg ttttgcggaa aaaaacgagt 420
104 cagattactt ttcttcatgt atatcatcat gtttctatgt ttaacatctg gtgggtgtc 480
105 ttgaacttggg taccttgtgg acaaagtttgc ttttgcggaa cactgaacag ttttgtccac 540
106 attcttatgt actcctacta tggacttttgc gtgtttccat ctatgcacaa gtatctttgg 600
107 tggaaagaaat atctcacaca ggctcagctg gtgcagttcg tgctcaccat cacgcacacc 660
108 atgagcgcgc tcgtgaaacc gtgtggcttc cccttcgggtt gtctcatctt ccagtcatct 720
109 tatatgtctaa cgtagtcat cctcttctt aattttatgt ttcagacata ccgaaaaaaag 780
110 ccaatgaaga aagatatgca agagccaccc gcaggaaag aagtgaagaa tggttttcc 840
111 aaagcctact tcactgcagc aaatggagtg atgaacaaga aagcacaa                         888
114 <210> SEQ ID NO: 3
115 <211> LENGTH: 4002
116 <212> TYPE: DNA
117 <213> ORGANISM: Homo sapiens
119 <400> SEQUENCE: 3
120 gatagcgccc ggcagggga cccggctacc ctggacagcg catcgccgcc cgccccgggtc 60
121 gccgcgcac accgcgtcg gatcatggaa catctaaagg cctttgtatga tgaatcaat 120
122 gctttttgg acaatatgtt tggaccgcga gatttcgcgt tcagagggtt gttcacgttg 180
123 gactcttacc ttccttaccc ttttcttact gtcgtatc tgctctcaat atggctgggt 240
124 aacaagtata tgaagaacag acctgtctt tcttcagggtt gtatcctcac cttgtataat 300
125 ctggaaatca cacttctctc cgcgtacatg ctggcagagc tcattctctc cacttggaa 360
126 ggaggctaca acttacagtg tcaagatctt accagcgcag gggaaagctga catccggta 420
127 gccaagggtgc tttgggttgc ctatcttcc aaatcagtag agttcctgga cacaatttc 480
128 ttcgtttgc ggaaaaaaac gagtcagatt acctttcttc atgtatata tcatgtttct 540

```

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/10/519,325**

**DATE: 03/31/2006**  
**TIME: 15:34:00**

**Input Set : A:\62639463.APP**  
**Output Set: N:\CRF4\03312006\J519325.raw**

```

129 atgttaaca tctggggtg tgtcttgaac tggatacctt gtggacaaag tttctttgga 600
130 ccaacactga acagtttgt ccacattctt atgtactcct actatggact ttctgtgtt 660
131 ccatctatgc acaagtatct ttggtggaaag aaatatctca cacaggctca gctggcag 720
132 ttcgtgctca ccatcacgca caccatgagc gccgtcgta aaccgtgtgg ctccccttc 780
133 ggttgcgtca tcttcaggc atcttatatg ctaacgttag tcatacctt cttaaatttt 840
134 tatgttcaga cataccgaaa aaagccaatg aagaaagata tgcaagagcc acctgcaggg 900
135 aaagaagtga agaatggttt ttccaaagcc tacttcactg cagcaaattgg agtgatgaac 960
136 aagaaaagcac aataaaaaatg agtaacagaa aaagcacata tactagccta acagattggc 1020
137 ttgtttaaa gcaaagactg aattgaaggt tacatgtttt aggataaact aatttcttt 1080
138 gagttcataa atcattgtt cccagaatgt attaatatat tgcttattagg ttaatctgtt 1140
139 aactgaatgc tttgatcagc attgagggtga tgctcaccc cgaggaccc agaactggg 1200
140 cagttctct ctccctccct cccacagact gaaccttcg ccagaagctg tccttataac 1260
141 gccttatacg catacacagc caggaaacgt ggagcattgt ttcttcacaga gagtctccaa 1320
142 ataaaaaggg ttttggtcag attaaaatgt ttacaacaaa atgttaatta tattctaaat 1380
143 acagggtatg ttctaatcta tattaagcaa taatgccatg gcataatcat tccatttgg 1440
144 ccttagcaa tcaaccccg aaaatattaa aatggatca tacacagaag atagaaaaat 1500
145 ctagcaaaac ttctctttt gtaagccaga gtctgtctc tcagattccc acaaccactc 1560
146 ctgattctaa atttagtcat atggtaatgaa aattggattt tattttaaat attagttatt 1620
147 ctaaggagaa aaaaatgctt ctgcaagattt ttcataattc aggggctgtg gataggattg 1680
148 ttccctgtt tccctaatca ttcatctgtt catgtctccc tcttgcgc gtcagccctag 1740
149 gttatacaga tgccatgctc cacaccacga gcagtgtaca aatctggctg cccgttact 1800
150 ttctgagcaa gcactggagt ccactccgac cttttctttt gaacatgcat gctgctggaa 1860
151 tatgtataaa tcagaacttag cagaagtagc agagtgtatgg gagcaaaata ggcactgaat 1920
152 tcgtcaactc tttttgtga gcctacttgtt gaatattacc tcagataacct gttgtcaactc 1980
153 ttccacaggtt atttaagttt ttgaagctgg gagaaaaaaag atggagtagc ttggaaagat 2040
154 tccagcactg agccgtggc cggcatgag ccacgataaa aatgccatg ttggcaaaact 2100
155 cagcactcct gttccctgct caggtatatg cgatctctac tgagaagcaa gcacaaaagt 2160
156 agacaaaagt attaatgagt atttccttc tccataagtg caggactgtt actcactact 2220
157 aaactctacc aagaatggaa acaaagaata ttttctgaag atttttttga agattaattt 2280
158 ataccctata aaataaaact tggtagcttc gatgaagtca ctcatcttc tctcctaccc 2340
159 tatttttta aataagttt taggtcctga cactgacatc aaatacatgc acaccagaaa 2400
160 ggcatttcca ccaccgtccc cactcattag cgtccagatg gccttctct ctggctttt 2460
161 ttccccccct gagctctagt tttaaactt ctcctgttaa aaaaattgtt ctttatttc 2520
162 atgtaaactg cccctctgag gatttggca tattttgg aaggtgccta atgcttagga 2580
163 tagtctctag ggtgatgcac tgcacctgt tcctccctt cagtgcggcc gaccatcc 2640
164 tggtaacag atgtccctg tggatgcctt ctgactctt catttatctt tctaaatcat 2700
165 ttctgagc tgactgtctc tagggtgctt catcaccact tccatcttc atcacctt 2760
166 aactgttctg tcttggctc tcccgcaat ttattttaaa acaagggtca gcttcaagca 2820
167 tgactgttaa tggctctct gtgacaaaac acaagttgg acaaggagaa agccctttgg 2880
168 agaaaactgga ccctagttca gtttagatct caaatatagg ctgaaatctc ttaccaaagt 2940
169 gcgttccaga taaaaatgag acttagaaga cagactggtc taatatgtc actggtcattc 3000
170 acattcagct tatttttacg tgccagttag gcccattttt ctcagtgcattt agcataacct 3060
171 ccactctggc tggtttccctg ggcttcatat ctgtatggca aggagggagc tggcttccat 3120
172 cagacaaaagt caagcagctt taagtacaag gcagcttgaa acctctctga tgaaagtgaa 3180
173 aatgtgggt agcttataact ttcaaaactt tgccagtgcattt tagagagagg tttcatttcat 3240
174 gatgtgtatt tccaaatttgg tcttcaattt aagagatgt tcataaaacaa cttatagcc 3300
175 taaaccattt aagggtcaat taaaaaaaata gttatgaaat cttagccaca aaaaataaaat 3360
176 caggttaaaca tttaaacctg tcgttaagtg ttgttaacttcc aaaaaaccacaa aatgcttattt 3420
177 ttaatgtatg ttttctaaaaa ctattgaaaa attaatattt ctataatcta taaaaaaaaa 3480

```

**RAW SEQUENCE LISTING** DATE: 03/31/2006  
**PATENT APPLICATION:** US/10/519,325 **TIME:** 15:34:00

Input Set : A:\62639463.APP  
Output Set: N:\CRF4\03312006\J519325.raw

178 tggagaatgt ttctctcaa atttcctctg acccatggga ataaaaatac ttaataactg 3540  
179 taaagcatat ctattaataa ttcccccattttttaact aacaaaatgg aatgttaact 3600  
180 gaatggatt aaacatagca attgtcaagc catcaaaatt atatatcgaa ccacttaggc 3660  
181 atgttacggg gtaaagtctt caccctgtca tttgagaaat attttattat ttttattttta 3720  
182 aggcaaaaca gtgttactg tgatgggcag aacagcctt tgtatctagg agtccatgg 3780  
183 agttttcc aatatttcca tatcggtcat aaatgtgtct gggggctcc ttgtttggaa 3840  
184 aatatggata tcgcttggtt ttcccttggaa agtaattata tcttaagaac atagtatcat 3900  
185 gaatggagta gacaggggagg ctgcagaagc catttcttctt ttagataaaa aagcattatc 3960  
186 tatgattgtt gtataataaa ttgattttta cattaaaaaa aa 4002  
189 <210> SEQ ID NO: 4  
190 <211> LENGTH: 39  
191 <212> TYPE: DNA  
192 <213> ORGANISM: Artificial Sequence  
194 <220> FEATURE:  
195 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
196 primer  
198 <400> SEQUENCE: 4  
199 atgacggagg ttgtgaggca ctgccccac catgagcgc 39  
202 <210> SEQ ID NO: 5  
203 <211> LENGTH: 39  
204 <212> TYPE: DNA  
205 <213> ORGANISM: Artificial Sequence  
207 <220> FEATURE:  
208 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
209 primer  
211 <400> SEQUENCE: 5  
212 gcgcctatgg tggggcagt gcctcacaac ctccgtcat 39  
215 <210> SEQ ID NO: 6  
216 <211> LENGTH: 24  
217 <212> TYPE: DNA  
218 <213> ORGANISM: Artificial Sequence  
220 <220> FEATURE:  
221 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
222 primer  
224 <400> SEQUENCE: 6  
225 cctgtcggtta agtgttgtaa cttc 24  
228 <210> SEQ ID NO: 7  
229 <211> LENGTH: 29  
230 <212> TYPE: DNA  
231 <213> ORGANISM: Artificial Sequence  
233 <220> FEATURE:  
234 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
235 primer  
237 <400> SEQUENCE: 7  
238 attgttaat tccattcagt taacattcc 29  
241 <210> SEQ ID NO: 8  
242 <211> LENGTH: 37  
243 <212> TYPE: DNA  
244 <213> ORGANISM: Artificial Sequence

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/519,325

DATE: 03/31/2006

TIME: 15:34:00

Input Set : A:\62639463.APP

Output Set: N:\CRF4\03312006\J519325.raw

246 <220> FEATURE:  
247 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
248 primer  
250 <400> SEQUENCE: 8  
251 ccggaattca tggAACATCT aaaggccttt gatgtatg 37  
254 <210> SEQ ID NO: 9  
255 <211> LENGTH: 39  
256 <212> TYPE: DNA  
257 <213> ORGANISM: Artificial Sequence  
259 <220> FEATURE:  
260 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
261 primer  
263 <400> SEQUENCE: 9  
264 cccgcggccg ctTATTGTGC tttcttGTTc atcactcca 39  
267 <210> SEQ ID NO: 10  
268 <211> LENGTH: 20  
269 <212> TYPE: DNA  
270 <213> ORGANISM: Artificial Sequence  
272 <220> FEATURE:  
273 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
274 oligonucleotide designed for ELOVL2  
276 <400> SEQUENCE: 10  
277 agccacacgg ttTCACGACG 20  
280 <210> SEQ ID NO: 11  
281 <211> LENGTH: 20  
282 <212> TYPE: DNA  
283 <213> ORGANISM: Artificial Sequence  
285 <220> FEATURE:  
286 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
287 primer  
289 <400> SEQUENCE: 11  
290 gcagcacTTT ggcacaccGA 20  
293 <210> SEQ ID NO: 12  
294 <211> LENGTH: 21  
295 <212> TYPE: DNA  
296 <213> ORGANISM: Artificial Sequence  
298 <220> FEATURE:  
299 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
300 primer  
302 <400> SEQUENCE: 12  
303 gctcaccatC acgcacacca T 21  
306 <210> SEQ ID NO: 13  
307 <211> LENGTH: 20  
308 <212> TYPE: DNA  
309 <213> ORGANISM: Artificial Sequence  
311 <220> FEATURE:  
312 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
313 primer  
315 <400> SEQUENCE: 13

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/519,325

DATE: 03/31/2006

TIME: 15:34:01

Input Set : A:\62639463.APP

Output Set: N:\CRF4\03312006\J519325.raw